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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/711,025	11/09/2000	Liran Brecher	TI-29893	6766
7590 06/30/2004			EXAMINER	
Jackson Walker, L.L.P.			CORRIELUS, JEAN B	
Suite 600 2435 North Central Expressway			ART UNIT	PAPER NUMBER
Richardson, TX 75080			2631	7
			DATE MAILED: 06/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/711,025	BRECHER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jean B Corrielus	2631				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 09 No	ovember 2000.					
· · ·						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-20,22-24 and 26-31 is/are pending i 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-19 and 26-31 is/are allowed. 6) Claim(s) 20 and 22-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 12. **The Declaration** 13. **The Declaration** 23. **The Declaration** 24. **The Declaration** 25. **The Declaration** 26. **The Declaration** 26. **The Declaration** 26. **The Declaration** 27. **The Declaration** 28. **The Declaration** 29. **The Declaration** 29. **The Declaration** 29. **The Declaration** 20. **The Declaration** 21. **The Declaration** 22. **The Declaration** 23. **The Declaration** 24. **The Declaration** 24. **The Declaration** 24. **The Declaration** 25. **The Declaration** 26. **The Declaration** 27. **The Declaration** 28	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	алент Аррисанон (СТО-102)				

Art Unit: 2631

DETAILED ACTION

Allowable Subject Matter

1.The indicated allowability of claim 20 is withdrawn in view of the previously applied reference(s) to Murakami. Rejections based on the previously applied reference(s) follow.

Claim Objections

2. Claims 26-31 are objected to because of the following informalities: Claim 26 recites a step or limitation(s) in lines 3-4, however, there is no connection between such a step and subsequently recited step(s) or limitation(s). The same comment applied to claim 29, lines 8-9. Claims 27, 28 30 and 31 are likewise objected to because of their dependency to objected claims 26 and 29. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the inventio was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 20 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Murakami US patent No. 5,175,747.

Murakami discloses a method and apparatus (fig. 1) having a feed forward digital section 200 having an input 1 for receiving digital transmission bursts; the feedforward section 200 defined a plurality of feedforward coefficients (Ci (n)); a decision element 70

Application/Control Number: 09/711,025

Art Unit: 2631

having an input coupled to said feedforward digital filter for deciding what values are included in the received signal, said decision element having an output for providing a signal indicative of the decided symbols; a feed back digital section 300 having an input coupled to the output of the decision element 70 for filtering said signal indicative of the decided symbols, said feedback section 300 having an output for providing a filtered signal; said output coupled to said input of said decision element, said feedback filter defined a plurality of feedback coefficients (Di(n)); and a coefficient determiner (100 and 101) coupled to said FF and FB filters using a first coefficient determination algorithm 100 to determine respective first values for said coefficients and using a second coefficient determination algorithm 101 to determine respective second values for said coefficients, wherein the first and second algorithms differ form one another see col. 5, line 66-col. 6, line 1 and said coefficient determiner having an output coupled to said feedforward digital filter and said feedback filter for outputting said first and said second values of said filters see col. 6, lines 12-16 and lines 42-45. Note that at col. 6, lines 1-31 that Murakami teaches that the first algorithm A acts only on a portion of the coefficient not on the remainder se fig. 2

As per claim 22, at col. 5, line 66- col. 6, line 1, Murakami teaches that the two algorithm are different from each other given that, the algorithms inherently has to differ in computation complexity.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Page 3

Application/Control Number: 09/711,025 Page 4

Art Unit: 2631

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murakami.

As applied to claim 20 above, Murakami discloses every feature of the claimed invention but does not explicitly teach the use of the least square it only teaches at col. 9, lines 13-14 that other adaptive algorithm can be used. Given the fact that Least Squares Algorithm is a well known adaptive algorithm, it would have been obvious to one skill in the art at the time of the invention to incorporate such an algorithm in Murakami in other to take advantage of its fast convergence property

As per claim 24 the second algorithm is a LMS algorithm see col. 9, line 14.

Allowable Subject Matter

7. Claims 1-19 and 26-31 are allowed. Note claim must be amended if necessary to overcome any objection sets forth above.

8. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Application/Control Number: 09/711,025

Art Unit: 2631

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Page 5

Arlington. VA., Sixth Floor (Receptionist).

9. Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Jean B. Corrielus whose telephone number is (703)

305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M.

to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Mohammad Ghayour, can be reached on (703) 306-3034.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone number is

(703) 305-3800.

Primary Examiner

TC-2600 6/25/04